THE UNITED STATES OF AMERICA

Hioneer Hi-Bred International, Inc.

MULTING, THERE HAS BEEN PRESENTED TO THE

Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED DISTINCT VARIETY OF SEXUALLY REPRODUCED, OR TUBER PROPAGATED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF TWENTY YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPLENISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE GHT TO EXCLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, OR ORTING IT, OR EXPORTING IT, OR CONDITIONING IT FOR PROPAGATION, OR STOCKING IT FOR ANY OF THE PURPOSES, OR USING IT IN PRODUCING A HYBRID OR DIFFERENT VARIETY THEREFROM, TO THE EXTENT OR BY THE PLANT VARIETY PROTECTION ACT. (84 STAT. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

SOYBEAN

'94Y70'

In Vestimonn Mucrost, I have hereunto set my hand and caused the seal of the Mant Mariety Protection Office to be affixed at the City of Washington, D.C. this twentieth day of August, in the year two thousand and eight.

Altost:

Berz-

Commissionar Plant Varioty Protection Office Agricultural Marketing Service Colmand r. Schofe

U.S. DEPARTMENT OF AGRICULTURE

The following statements are made in accordance with the Privacy Act of 1974 (5 U.S.C. 552a) and

AGRICULTURAL N SCIENCE AND TECHNOLOGY - PI	MARKETING SER' ANT VARIETY PI	VICE ROTECTION OFFICE	the Peperwork Reduction Act (PRA)	of 1995.				
APPLICATION FOR PLANT VAI (Instructions and information col	RIETY PROTECTI	ON CERTIFICATE			olant variety protection certificate is to be issued until certificate is issued (7 U.S.C. 2426).			
1. NAME OF OWNER			TEMPORARY DESIGNATION OF EXPERIMENTAL NAME	3. VA	RIETY NAME			
Pioneer Hi-Bred Internation	al, Inc.		XB47R07		94Y70			
4. ADDRESS (Street and No., or R.F.D. No., City,	State, and ZIP Co.	de, and Country)	5. TELEPHONE (include area code)		FOR OFFICIAL USE ONLY			
7300 N.W. 62nd Avenue			(515) 253-2197	1	NUMBER			
P.O. Box 1004			6. FAX (include area code)	#	200 800097			
Johnston, IA 50131-1004			(515) 253-2288	FILING	3 DATE			
 IF THE OWNER NAMED IS NOT A "PERSON". ORGANIZATION (corporation, partnership, associated) 	SIVE FORM OF clation, etc.)	8. IF INCORPORATED, GIVE STATE OF INCORPORATION	9. DATE OF INCORPORATION	DATE OF INCORPORATION 1/29/2008				
Corporate		Iowa	May 6, 1926					
10. NAME AND ADDRESS OF OWNER REPRESE	NTATIVE(S) TO S	SERVE IN THIS APPLICATION. (First	t person listed will receive all papers)	F E	FILING AND EXAMINATION FEES:			
Paul D. Koelling		Cassie J. Prochasl	ka	S	: 4,382.00			
7300 N.W. 62nd Avenue		7250 N.W. 62nd A	Avenue	R E C	DATE 1/29/2008 CERTIFICATION FEE:			
P.O. Box 1004		P.O. Box 552		E	\$ 768.00			
Johnston, IA 50131-1004		Johnston, IA 50	131-1000	¥ E D	DATE 7/17/08			
11. TELEPHONE (include area code)	12. FAX (Includ		13. E-MAIL		<u> </u>			
(515) 253-2197 14. CROP KIND (Common Name)	(515) (253-2288	paul.koelling@p	ioneer.	com			
_		•	18. DOES THE VARIETY CON	I AIN ANY I	RANSGENES? (OPTIONAL)			
Soybean 15. GENUS AND SPECIES NAME OF CROP	Fabace	386 RETYA FIRST GENERATION HYBR	IF SO, PLEASE GIVE THE	ASSIGNED	USDA-APHIS REFERENCE NUMBER FOR THE			
Glycine max	YES	X NO	APPROVED PETITION TO COMMERICALIZATION.	DEREGU	ATE THE GENETICALLY MODIFIED PLANT FOR			
19. CHECK APPROPRIATE BOX FOR EACH ATTA	CHMENT SUBMI	TTED	20. DOES THE OWNER SPEC	IFY THAT S	EED OF THIS VARIETY BE SOLD AS A CLASS			
(Follow instructions on reverse) a. X Exhibit A. Origin and Breeding History	of the Variety		OF CERTIFIED SEED? (S		83(a) of the Plant Veriety Protection Act)			
b. X Exhibit B. Statement of Distinctness	or the variety		21. DOES THE OWNER SPEC		end 22 below) X NO (ff "no", go to flem 23) EED OF THIS VARIETY BE LIMITED AS TO			
c. X Exhibit C. Objective Description of Vari	ety		NUMBER OF CLASSES?					
d. X Exhibit D. Additional Description of the				NDATION REGISTERED CERTIFIED				
e. X Exhibit E. Statement of the Basis of the	nip		IFY THAT S	EED OF THIS VARIETY BE LIMITED AS TO				
f. X Exhibit F. Declaration Regarding Depor	sit		YES NO					
g. X Voucher Sample (3,000 viable untreate that tissue culture will be deposited and			IF YES, SPECIFY THE NUM	IF YES, SPECIFY THE NUMBER 1,2,3, etc. FOR EACH CLASS.				
g. X Filing and Examination Fee (\$4,382), m States" (Mail to the Plant Veriety Protect		reasurer of the United	, – –	FOUNDATION REGISTERED CERTIFIED (If additional explanation is necessary, please use the space indicated on the reverse.)				
23. HAS THE VARIETY (INCLUDING ANY HARVES FROM THIS VARIETY BEEN SOLD, DISPOSED OTHER COUNTRIES?			24. IS THE VARIETY OR ANY	COMPONE	NT OF THE VARIETY PROTECTED BY PLANT BREEDER'S RIGHT OR PATENT??			
YES V NO			YES NO	1				
IF YES, YOU MUST PROVIDE THE DATE OF F FOR EACH COUNTRY AND THE CIRCUMSTA			IF YES, PLEASE GIVE COU REFERENCE NUMBER. (P		E OF FILING OR ISSUANCE AND ASSIGNED pace indicated on reverse.)			
25. The owners declare that a viable sample of basi for a tuber propagated variety a tissue culture w	seed of the varie	ety has been furnished with application a public repository and maintained for	n and will be replenished upon request in or the duration of the certificate.	accordance	with such regulations as may be applicable, or			
The undersigned owner(s) is(are) the owner of the enlitted to protection under the provisions of Section	nis sexually reprod on 42 of the Plant	luced or tuber propagated plant variel Variety Protection Act.	ty, and believe(s) that the variety is new,	distinct, unif	orm, and stable as required in Section 42, and is			
Owner(s) is (are) informed that false representat	ion herein can jeo	pardize protection and result in penal	ties.					
SIGNATURE OF OWNER			SIGNATURE OF OWNER					
Paul D. Roellen	ill.							
			NAME (Please print or type)					
aul D. Koelling								
CAPACITY OR TITLE	DATE	, ,	CAPACITY OR TITLE	DATE				

(See reverse for Instructions and Information collection burden statement)

Process Improvement Manager

#200800097

GENERAL INSTRUCTIONS: To be effectively filed with the Plant Variety Protection Office (PVPO), ALL of the following items must be received in the PVPO: (1) Completed application form signed by the owner; (2) completed exhibits A, B, C, E, F; (3) for a tuber reproduced variety, verification that a viable (in the sense that it will reproduce an entire plant) tissue culture will be deposited and maintained in an approved public repository; and (4) payment by credit card or check drawn on a U.S. bank for \$4,382 (\$518 filing fee and \$3,864 examination fee), payable to "Treasurer of the United States" (See Section 97.6 of the Regulations and Rules of Practice). NEW: With the application for a seed reproduced variety or by direct deposit soon after filing, the applicant must provide at least 3,000 viable untreated seeds of the variety per se, and for a hybrid variety at least 3,000 untreated seeds of each line necessary to reproduce the variety. Partial applications will be held in the PVPO for not more than 90 days; then returned to the applicant as un-filed. Mail application and other requirements to Plant Variety Protection Office, AMS, USDA, Room 401, NAL Building, 10301 Baltimore Avenue, Beltsville, MD 20705-2351. Retain one copy for your files. All items on the face of the application are self explanatory unless noted below. Corrections on the application form and exhibits must be initialed and dated. DO NOT use masking materials to make corrections. If a certificate is allowed, you will be requested to send a payment by credit card or check payable to "Treasurer of the United States" in the amount of \$768 for issuance of the certificate. Certificates will be issued to owner, not licensee or agent.

NOTES: It is the responsibility of the applicant/owner to keep the PVPO informed of any changes of address or change of ownership or assignment or owner's representative during the life of the application/certificate. The fees for filing a change of address; owner's representative; ownership or assignment; or any modification of owner's name is specified in Section 97.175 of the regulations. (See Section 101 of the Act, and Sections 97.130, 97.131, 97.175(h) of the Regulations and Rules of Practice.)

Plant Variety Protection Office

Telephone: (301) 504-5518 FAX: (301) 504-5291

General E-mall: PVPOmail@usda.gov

Homepage: http://www.ams.usda.gov/science/pvpo/PVPindex.htm

SPECIFIC INSTRUCTIONS:

To avoid conflict with other variety names in use, the applicant must check the appropriate recognized authority and provide evidence that the permanent name of the application variety (even if it is a parental, inbred line) has been cleared by the appropriate recognized authority before the Certificate of Protection is issued. For example, for agricultural and vegetable crops, contact: U.S. Department of Agriculture, Agricultural Marketing Service, Livestock and Seed Programs, Seed Regulatory and Testing Branch, 801 Summit Crossing Place, Suite C, Gastonia, North Carolina 28054-2193 Telephone: (704) 810-8870. http://www.ams.usda.gov/isg/seed.htm.

ITEM

19a. Give:

- (1) the genealogy, including public and commercial varieties, lines, or clones used, and the breeding method;
- (2) the details of subsequent stages of selection and multiplication;
- (3) evidence of uniformity and stability; and
- (4) the type and frequency of variants during reproduction and multiplication and state how these variants may be identified
- 19b. Give a summary of the variety's distinctness. Clearly state how this application variety may be distinguished from all other varieties in the same crop. If the new variety is most similar to one variety or a group of related varieties:
 - (1) identify these varieties and state all differences objectively;
 - (2) attach replicated statistical data for characters expressed numerically and demonstrate that these are clear differences; and
 - (3) submit, if helpful, seed and plant specimens or photographs (prints) of seed and plant comparisons which clearly indicate distinctness.
- 19c. Exhibit C forms are available from the PVPO Office for most crops; specify crop kind. Fill in Exhibit C (Objective Description of Variety) form as completely as possible to describe your variety.
- 19d. Optional additional characteristics and/or photographs. Describe any additional characteristics that cannot be accurately conveyed in Exhibit C. Use comparative varieties as is necessary to reveal more accurately the characteristics that are difficult to describe, such as plant habit, plant color, disease resistance, etc.
- 19e. Section 52(5) of the Act requires applicants to furnish a statement of the basis of the applicant's ownership. An Exhibit E form is available from the PVPO.
- 20. If "Yes" is specified (seed of this variety be sold by variety name only, as a class of certified seed), the applicant MAY NOT reverse this affirmative decision after the variety has been sold and so labeled, the decision published, or the certificate issued. However, if "No" has been specified, the applicant may change the choice. (See Regulations and Rules of Practice, Section 97.103).
- 23. See Sections 41, 42, and 43 of the Act and Section 97.5 of the regulations for eligibility requirements.
- 24. See Section 55 of the Act for instructions on claiming the benefit of an earlier filing date.
- 22. CONTINUED FROM FRONT (Please provide a statement as to the limitation and sequence of generations that may be certified.)
- 23. CONTINUED FROM FRONT (Please provide the date of first sale, disposition, transfer, or use for each country and the circumstances, if the variety (including any harvested material) or a hybrid produced from this variety has been sold, disposed of, transferred, or used in the U.S. or other countries.)
- 24. CONTINUED FROM FRONT (Please give the country, date of filing or issuance, and assigned reference number, if the variety or any component of the variety is protected by intellectual property right (Plant Breeder's Right or Patent).)
 U.S. Patent 4,940,835 issued to Shah et al. as per the Roundup Ready Gene in this variety.

According to the Peperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this information collection is 0581-0055. The time required to complete this information collection is estimated to average 1.4 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

The U.S. Department of Agriculture (USDA) prohibits discrimination in all its programs and activities on the basis of race, color, national origin, age, disability, and where applicable, sex, martial status, perental status, religion, sexual orientation, genetic information, political beliefs, reprisel, or because all or part of an individual's income is derived from any public assistance program (Not all prohibited bases apply to all programs.) Persons with disabilities who require alternative means for communication of program information (Braille, large print, audiotape, etc.) should contact USDA's TARGET Center at (202) 720-2600 (voice and TDD).

To file a complaint of discrimination, write to USDA, Director, Office of Civil Rights, 1400 Independence Avenue, S.W., Washington, D.C. 20250-9410, or call (800) 795-3272 (voice) or (202) 720-6382 (TDD). USDA is an equal opportunity provider and employer.

Exhibit A. Origin and Breeding History of the Variety

Soybean Variety 94Y70

Variety 94Y70 evolved from a cross made in the summer 2001 in Illinois with the following parentage:

Parentage = 93B86/H04433

H04433 = YB48M01/94B54* YB48M01 = XB48B/A3431 XB48B = Y4667-09/A4715 Y4667-09 = P4280/FAYE

*94B54 is a commercial variety with the Roundup Ready® (40-3-2) gene

Variety 94Y70 is an F3-derived line which was advanced to the F3 generation by modified single-seed descent. The F3 progeny row of 94Y70 was grown in a plant row yield trial in Argentina in the winter of 2002/2003. Subsequently, 94Y70 has undergone five years of extensive testing and purification and has been observed by the breeder to be uniform and stable for all plant traits from generation to generation, with no evidence of variants. On the basis of yield, soybean cyst nematode resistance, and resistance to Roundup® branded herbicides; variety 94Y70 was assigned a commercial number.

The purification block was grown in the summer of 2005 in Illinois and 72 sub-lines were harvested. A fourth (0.25) acre increase was grown in Argentina in 2005/2006. Eleven (11) acres were grown in the summer of 2006 as parent seed stock (foundation seed equivalent). Approximately 320 acres were grown in the summer of 2007 and eight (8) acres were grown in Chile in the winter of 2007/2008 as seed stock and production seed.

Exhibit B. Statement of Distinctness

Soybean Variety 94Y70

Variety 94Y70 is most similar to Northrop King Brand variety S46W8. Both varieties have purple flowers, tawny pubescence, yellow seed with black hila, brown pod wall, race 3 resistant to the soybean cyst nematode, and resistance to Roundup® branded herbicides. However, *Phytophthora megasperma* as governed by the Rps1c gene is absent in 94Y70, whereas *Phytophthora megasperma* as governed by the Rps1c gene is present in S46W8.

REPRODUCE LOCALLY. Include form number and date on all reproductions.

Form Approved OMB NO 0581-0055

According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it deplays a velot OMB control number. The valid OMB control number for this information collection is 0581-0005. The time required to complete this information collection is 0581-0005. The time required to complete this information collection is estimated to average 1.4 hours per response, including the time for reviewing instructions, searching existing data sources, gethering and maintaining the data needed, and completing and renaving the collection of information.

The U.S. Department of Agriculture (USDA) prohibits discrimination in all its programs and activities on the basis of race, color, national origin, age, disability, and where applicable, sex, mantal status, parental status, religion, sexual crimitation, genetic information, political beliefs, reprisal, or because all or part of an individual's income is derived from any public assistance program (Not all prohibited bases apply to all programs). Persons with disabilities who require elemetive means for communication of program information (Braille, large print, audiotape, etc.) should contact USDA's TARGET Center at (202) 720-2600

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U.S. DEPARTMENT OF AGRICULTURE

EXHIBIT

AGRICULTURAL MARKETING SERVICE SCIENCE AND TECHNOLOGY PLANT VARIETY PROTECTION OFFICE BELTSVILLE, MD 20705

OBJECTIVE DESCRIPTION OF VARIETY Soybean (Glycine max (L.) Merr.)

NAME OF APPLICANT (S)	TEMPORARY OR EXPERIMENTAL DESIGNATION	VARIETY NAME
Pioneer Hi-Bred International, Inc.	XB47R07	94Y70
ADDRESS (Street and No. or RD No., City, State, Zip Code, and Cou	ntry)	FOR OFFICIAL USE ONLY
7300 N.W. 62nd Avenue, P.O. Box 1004, Jo	ohnston, IA, 50131-1004	PVP NUMBER 200800097
PLEASE READ ALL INSTRUCTIONS CAREFULLY:		
Place the appropriate number that describes the variet	al character of this variety in the spaces below.	
Place a zero in the first box (e.g. 0 9 9 9 or 0 should be based on a minimum of 100 plants. Comparany recognized color standard may be used to determine all questions for your variety; lack of response may def	ne plant colors; designate system used	spectively. Data for quantitative plant characters red in the same trial. Royal Horticultural Society or Please answer
A. MORPHOLOGY:		
Seed Shape:		$\Theta O O $
1 = Spherical (LW, L/T, and T/W ratios ≤1.2)	2 = Spherical-Flattened (L/W ratios> 1.2; L/T ratios s	• •
3 = Elongate (L/W ratios > 1.2; T/W ratios ≤ 1.2)	4 = Elongate-Flattened (L/T ratios ≥ 1.2; L/W ratios	≥ 1.2)
Seed Coat Color:		
* 1 1 = Yellow 2 = Green 3 = E	Brown 4 = Black 5 = Other (Please	e specify)
Seed Coat Luster:		
1 1 = Dull 2 = Shiny		
Seed Size: * 14.1 grams/100 seeds (rounded to	o the nearest decimal (00.0))	
Hilum Color;		
* 6 1 = Buff 2 = Yellow 3 = B 7 = Other (Please specify)	rown 4 = Gray 5 = Imperfect Bla	ck 6 = Black

Exhibit C (Soybean)

A. MORPHOLOGY: (continued)

Cotyledon Color:

Seed Protein Peroxidase Activity:

$$2 = High$$

Hypocotyl Color:

2 = Green with Bronze ('Evans' or 'Davis') Band below cotyledons 3 = Light Purple below Cotyledons

4 = Dark Purple extending to unifoliolate leaves ('Hodgson', 'Coker', or 'Hampton 266A')

('Woodworth' or 'Tracy')

('Beeson' or 'Pickett 71')

Leaf Shape:

Flower Color:

Pod Color:

Pubescence Color:

Plant Habit:

Maturity Group:

13 = X

14 = XI

Maturity Subgroup:

B. DISEASE REACTIONS: 0 = Not Tested

NOTE: Failure to supply information for at least 5 of the following disease reactions will result in significant delay in the examination process. Items denoted by and asterisk are the disease reactions most useful in the examination process.

Bacterial

- * 0 Bacterial Pustule (Xanthomonas campestris pv. glycines (Nakano) Dye)
- Bacterial Blight (Pseudomonas syringae pv. glycinea (Coerper) Young, Dye, & Wilkie)
- * 0 . Wildfire Blight (Pseudomonas syringae pv. tabaci (Wolf & Foster) Young, Dye, & Wilkie)

Fungal

- 1 Brown Spot (Septoria glycines Hemmi)
- 0 Frogeye Leaf Spot (Cercospora sojina Hara)

race 4

- race 1 0 race 2
- race 3
- 0 race 5 0 race 6
- (Please specify)

В.	Dk	SEASE REA	\C1	Γ ΙΟΝS : (cont	inue	ed)						
	0	Target Spot	(Coi	rynespora cass	iico	la (Berk. & Cui	rt.) V	Vei)				
	0	i .		- Peronspora trifi					d. E>	(Gäum)		
	0	1		(Microsphaera				. , ,		,		
	0	Brown Stem	Rot	(Phialophora g	greg	ata (Allington a	& Ch	namberlain) W.	. Ga	ms.)		
*	0	Stern Canker	(Di	aporthe phase	olon	um (Cke. & Ell	.) Sa	acc. var. cauliv	ora	Athow & Cald	well)	
*	1	Pod and Ster	n Bl	light (<i>Diaporthe</i>	ph:	aseolorum (Ck	æ. &	Ell.) (Sacc. va	ar, so	ojae (Lehman)) We	hm.)
	Purple Seed Stain (Cercospora kikuchii (T. Matsu. & Tomoyasu) Gardener)											
	1	Rhizoctonia F	Root	t Rot (<i>Rhizocto</i>	nia.	solani Kühn)						
	0	Asian Soybea	an F	Rust (<i>Phakosp</i> o	ora p	oachyrhizi Syd	w. (a	a.k.a. <i>Phakosp</i>	ora	pachyrhizia S	ydw.))
	0	Other (P	leas	e specify)								
Spe	cify	the gene(s) co	odin	g for reaction to	o Ph	ytophthora Ro	ot F	Rot.				
	0	Rps1 (Williams)	1	Rps1-c (Arksoy)	0	<i>Rps1-k</i> (Kingwa)	0	Rps3-b (Pl 172.901)	0	Rps5 (Pl 91.160)	0	Rps? (Nezumisaya, OX939, OX940)
	0	<i>Rps1-a</i> (Mukden)	0	Rps1-d (Pl 103.091)	0	Rps2 (CNS)	0	Rps3-c (Pl 340.046)	0	Rps6 (Altona)		
	0	<i>Rps1-b</i> (Sanga)	0	Rps1-e (Pl 172.907)	0	Rps3-a (Pl 171.442)	0	<i>Rps4</i> (Pl 86.050)	0	Rps7 (Harosoy)		
*Phy	/top	hthora Root R	ot (/	Phytophthora s	ojae	e (Kaufmann 8	Ge	rdemann))				
		race 1		race 9		race 17	0	race 25	0	race 32	0	race 39
. 1	0	гасе 2	0	гасе 10	0	race 18	0	race 26	0	race 33	0	race 40
	0	гасе 3	0	race 11	0	race 19	0	race 27	0	race 34	0	race 41
-	0	race 4	0	race 12	0	race 20	0	race 28	0	race 35	0	race 42
	1	гасе 5	0	race 13	0	race 21	0	гасе 29	0	race 36	0	race 43
	0	гасе 6	0	race 14	0	race 22	0	race 30	0	race 37	0	race 44
	1	race 7	0	race 15	0	race 23	0	race 31	0	race 38	0	race 45
. [0	race 8	0	race 16	0	race 24	0	Important: An	y oti	her races test	ed (F	Please specify)
. [1	Bud Blight (To	bac	co Ringspot V	irus)	ı						
. [1	Yellow Mosaid	(Be	ean Yellow Mo	saic	Virus)						
*	1	Cowpea Mosa	ic (Cowpea Chloro	otic '	Virus)						
. [1	Pod Mottle (Bo	ean	Pod Mottle Vir	us)							
*	1	Seed Mottle (Soyl	oean Mosaic V	irus))						•
Ner	nato	ode										
Soy	bea		_	(Heterodera g		-						
	0	race 1 C	∐ га	nce 4 0	race	e 9						
ļ	0	race 2 0	ј га	ice 5 0	race	e 14						
	2	race 3 0	_ ra	ce 6 0	lmp	ortant: Any oth	ner r	aces tested (F	leas	se specify)		

		Exhibit C (Soybean)
В.	. DISEASE REACTIONS: (continued)	
	0 Lance Nematode (<i>Hoplolaimus columbus</i> Sher)	
	1 Southern Root Knot Nematode (<i>Meliodogyne incognita</i> (Kofoid & White) Chitwood)	
	Northern Root Knot Nematode (Meliodogyne hapla Chilwood)	
	0 Reniform Nematode (Rotylenchus reniformus Linwood & Olivera)	
	Peanut Root Knot Nematode (<i>Meliodogyne arenaria</i> (Neal) Chitwood) Reniform Nematode (<i>Rotylenchus reniformus</i> Linwood & Olivera) Javanese Nematode (<i>Meliodogyne javanica</i> (Treub) Chitwood) mportant: Other Nematodes tested (Please specify)	
	0 Important: Other Nematodes tested (Please specify)	_
_		-
C.	PHYSIOLOGICAL RESPONSES: 0 = Not Tested 1 = Susceptible 2 = Resistant 3 = Tolerant	
٠	1 Iron Chlorosis on Calcareous Soil	
	0 Phosphorus 0 Important: Other (Please specify)	
	0 Boron	"
	0 Aluminum	
	0 Salt	
	O Phosphorus O Important: Other (Please specify) O Boron O Aluminum Salt O Drought	
	INSECT REACTIONS: 0 = Not Tested 1 = Susceptible 2 = Resistant 3 = Tolerant O	
	0 Important: Other (Please specify)	
E.	HERBICIDE REACTIONS: 0 = Not Tested 1 = Susceptible 2 = Resistant 3 = Tolerant	
	0 Metribuzin	
	0 Bentazone	
	1 Sulfonylurea	
*	2 Glyphosate	
	1 Glufosinate	
	7 Pendimethalin	
	Metribuzin OBentazone Sulfonylurea Clyphosate OBentazone Inportant: Other (Please specify)	

	Exhibit C (Soybean)
TRANSGENIC COMPOSITION:	
Has the development of the subject variety included the insertion of genetic material from an orga or, the removal of genetic material from the application variety?	anism other than a soybean,
yes, please complete the following information requests*. Use additional pages if necessary.	☑ Yes ☐ No
1. Please state the vector's name:	
2. Please state the vector components:	

- 2. Please state the vector components:
- 3. Please describe the genetic material successfully transferred into the subject variety:
- 4. Please describe the insertion protocol:
- * A literature citation(s) explaining the four information requests above may be an acceptable alternative to completion of the "Transgenic Composition" portion of this form.

G. BIOCHEMICAL MARKERS:

Please describe any additional genetic and/or biochemical information which you believe will be helpful in further describing the subject variety here (e.g., Single Nucleotide Polymorphisms (SNPs), Simple Sequence Repeats (SSRs), Restriction Fragment Length Polymorphisms (RFLPs), Isozyme characterization, etc.). Use additional pages if necessary.

H. STATISTICAL DATA FOR APPLICATION AND CITED MOST SIMILAR VARIETIES:

Please provide paired comparison data and appropriate statistical test (e.g. LSD. Std. error, ANOVA, Mann-Whitney U-test or Kruskal-Wallis Test, etc.) value (95 or > probability level).

Variety	No. of days Maturity	Plant height (cm)	% Linoleic acid	% Oleic acid	% Linolenic acid	% Other fatty acids (specify)	% Total oil	% Protein (Plant dried down to%)
Application Variety Year/Location 1								
Year/Location 2								
Cited Most Similar Variety Year/Location 1								
Year/Location 2								į
LSD .05				`		<u></u>		

ST-470-02 (02-06) designed by the Plant Variety Protection Office using Microsoft Word 2003.

Exhibit C (Soybean)

I. COMMENTS:

Number 1:

The Transgenic Composition section is fully addressed in the following publication. Specific details of this vector components and insert elements are summarized in Figure 1 and Table 1 on page 1453. Padgett, S.R. et al. Development, Identification, and Characterization of a Glyphosate-Tolerant Soybean Line. 1995. Crop Science. 35:1451-1461.

Number 2:

94Y70 is rated as susceptible to iron chlorosis on calcareous soils. On a scale of one to nine with one being fully susceptible, and nine being complete resistance; 94Y70 is rated three.

Number 3:

94Y70 is rated as susceptible to Southern Root Knot Nematode. On a scale of one to nine with one being fully susceptible, and nine being complete resistance; 94Y70 is rated two.

Exhibit D. Additional Description of the Variety

Soybean Variety 94Y70

In Exhibit C we have identified variety 94Y70 as susceptible to bacterial blight, brown spot, pod and stem blight, rhizoctonia root rot, bud blight, yellow mosaic, cowpea mosaic, pod mottle and seed mottle.

This does not mean that variety 94Y70 is any worse for these problems than other varieties of similar maturity. Rather, we do not consider 94Y70 to be immune to these problems. Therefore, we have chosen to be conservative and have identified the line as "susceptible".

Variety 94Y70 is a mid to late Group 4 variety. If Group 4 varieties are divided into tenths, the relative maturity of 94Y70 is 4.7.

REPRODUCE LOCALLY. Include form number and edition date on al	ll reproductions.	ORM APPROVED - OMB No. 0581-0055
U.S. DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE EXHIBIT E STATEMENT OF THE BASIS OF OWNERSHIP	Application is required in order to detectificate is to be issued (7 U.S.C. 24 confidential until the certificate is issued.	21). The information is held
1. NAME OF APPLICANT(S)	2. TEMPORARY DESIGNATION	3. VARIETY NAME
Pioneer Hi-Bred International, Inc.	OR EXPERIMENTAL NUMBER XB47R07	94Y70
4. ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP, and Country)	5. TELEPHONE (Include area code)	6. FAX (Include aree code)
7300 N.W. 62nd Avenue	(515) 253-2197	(515) 253-2288
P.O. Box 1004	7. PVPO NUMBER	A A A 7
Johnston, IA 50131-1004	#20080	0097
8. Does the applicant own all rights to the variety? Mark an "X" in th		
9. Is the applicant (individual or company) a U.S. national or a U.S. t	based company? If no, give name of co	ountry. YES NO
10. Is the applicant the original owner?	NO If no, please answer one	of the following:
a. If the original rights to variety were owned by individual(s), is YES b. If the original rights to variety were owned by a company(ies) YES 11. Additional explanation on ownership (Trace ownership from original rights) PLEASE NOTE:	NO If no, give name of count), is (are) the original owner(s) a U.S. bas V NO If no, give name of countr	sed company? y
Plant variety protection can only be afforded to the owners (not licen	cees) who meet the following criteria:	
If the rights to the variety are owned by the original breeder, that p national of a country which affords similar protection to nationals country are owned by the company which employed.	person must be a U.S. national, national of the U.S. for the same genus and speci	es.
nationals of a UPOV member country, or owned by nationals of a genus and species.		
3. If the applicant is an owner who is not the original owner, both the	original owner and the applicant must m	eet one of the above criteria.
The original breeder/owner may be the individual or company who di Act for definitions.	irected the final breeding. See Section 4	1(a)(2) of the Plant Variety Protection

According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this information collection is estimated to everage 0.1 hour per response, including the time for reviewing the instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

The U.S. Department of Agriculture (USDA) prohibits discrimination in all its programs and activities on the basis of rece, color, national origin, gender, religion, age, disability, sexual orientation, marital or family status, political beliefs, parental status, or protected genetic information. (Not all prohibited bases apply to all programs.) Persons with disabilities who require alternative means for communication of program information (Braille, large print, audiotape, etc.) should contact USDA's TARGET Center at 202-720-2600 (voice and TDD).

To file a complaint of discrimination, write USDA, Director, Office of Civil Rights, Room 326-W, Whitten Building, 14th and Independence Avenue, SW, Washington, D.C. 20250-9410 or call (202) 720-5964 (voice and TDD). USDA is an equal opportunity provide and employer.

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According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this information collection is 0581-0055. The time required to complete this information collection is estimated to average 5 minutes per response, including the time for reviewing instructions, searching existing data sources, gethering and maintaining the data needed, and completing and reviewing the collection of information.

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U.S. DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE SCIENCE AND TECHNOLOGY PLANT VARIETY PROTECTION OFFICE BELTSVILLE, MD 20705

EXHIBIT F
DECLARATION REGARDING DEPOSIT

NAME OF OWNER(S) Pioneer Hi-Bred International, Inc.	ADDRESS (Street and No. or RD No. City, State, and Zip Code and Country) 7300 N.W. 62nd Avenue	TEMPORARY OR EXPERIMENTAL DESIGNATION XB47R07			
	P.O. Box 1004 Johnston, IA 50131-1004	VARIE 94Y70			
NAME OF OWNER REPRESENTATIVE (S)	ADDRESS (Street and No. or RD No., City, State, and Zip Code and Country) 7300 N.W. 62nd Avenue	FOR OFFICIAL USE ONLY			
Paul D. Koelling Cassie J. Prochaska	P.O. Box 1004 Johnston, IA 50131-1004	#200 8 0 0 0 9 7			

I do hereby declare that during the life of the certificate a viable sample of propagating material of the subject variety will be deposited, and replenished as needed periodically, in a public repository in the United States in accordance with the regulations established by the Plant Variety Protection Office.

Daul D. Hoelling Signature

January 25, 2008